

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE NOV 05 2004 INFORMATION DISCLOSURE STATEMENT BY APPLICANT USE SEVERAL SHEETS IF NECESSARY NOV 05 2004	ATTY. DOCKET NO. VAST.003A	APPLICATION NO. 10/763,057
	APPLICANT David L. Hagen et al.	
	FILING DATE January 22, 2004	GROUP 3745

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
JB	1	4,273,527	06/16/81	Meenan	—	—	
J	2	5,690,039	11/25/97	Monro et al.	—	—	
J	3	6,158,962	12/12/00	Lee et al.	—	—	
J	4	6,183,240	02/06/01	Dobbeling et al.	—	—	

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
JB	5	Agren, N., "Advanced Gas Turbine Cycles with Water-Air Mixtures as Working Fluid", Doctoral Thesis, Department of Chemical Engineering and Technology, Energy Processes, Royal Institute of Technology, Stockholm, 2000.
J	6	Agren et al., "First Experiments on an Evaporative Gas Turbine Pilot Power Plant – Water Circuit Chemistry and Humidification Evaluation", The American Society of Mechanical Engineers, 2000.
J	7	Agren et al., "New Humidification Concept for Evaporative Gas Turbine Cycles Applied to a Modern Aeroderivative Gas Turbine", Proceedings for the ASME, AES-Vol. 37, 1997.
J	8	Lindquist, T., "Evaluation, Experience and Potential for Gas Turbine Based Cycles with Humidification", Doctoral Thesis, Division of Thermal Power Engineering, Dept. of Heat and Power Engineering, Lund University, Sweden, Sept. 6, 2002, p. 85.

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EXAMINER	D. B. & LBS	DATE CONSIDERED	4/3/06
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.			

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

SHEET 1 OF 1

Application No.	10/763,057
Filing Date	January 22, 2004
First Named Inventor	David L. Hagen
Art Unit	3745
Examiner	Unknown
Attorney Docket No.	VAST.003A

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
<i>DB</i>	1	5,223,594	07/13/93	Swenson	
	2	6,053,418	04/25/00	Guyer	
<i>J</i>	3	6,073,857	07/13/00	Gordon et al.	
	4	6,810,668	11/02/04	Nagatani et al.	

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
<i>DB</i>	5	International Search Report for Application No. PCT/US04/01545 (the PCT counterpart of the parent application).	

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Examiner Signature <i>D. Boles</i>	Date Considered <i>4/3/06</i>
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

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U.S. DEPARTMENT OF COMMERCE  
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3754

(USE SEVERAL SHEETS IF NECESSARY)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
<i>DB</i>	1	2,678,531	05/18/54	Miller	—	—	
	2	2,678,532	05/18/54	Miller			
	3	2,869,324	01/20/59	Foote			
	4	3,238,719	03/08/66	Harslem			
	5	3,651,641	03/28/72	Ginter			
	6	3,657,879	04/25/72	Ewbank et al.			
	7	3,696,795	10/10/72	Smith et al.			
	8	4,128,994	12/12/78	Cheng			
	9	4,248,039	02/03/81	Cheng			
	10	4,483,137	11/20/84	Faulkner et al.			
	11	4,491,093	01/01/85	Hoekstra			
	12	4,509,324	04/09/85	Urbach et al.			
	13	4,522,024	06/11/85	Zaugg			
	14	4,753,068	06/28/88	El-Masri			
	15	4,841,721	06/27/89	Patton et al.			
	16	4,928,478	05/29/90	Maslak			
	17	5,050,375	09/24/91	Dickinson			
	18	5,175,995	01/05/93	Pak et al.			
	19	5,271,215	12/21/93	Guillet			
	20	5,617,716	04/08/97	Schreiber			
	21	5,627,719	05/06/97	Gaston			
	22	5,680,764	10/28/97	Viteri			
	23	5,743,080	04/28/98	Ginter			
	24	5,771,678	06/30/98	Shouman			
	25	6,089,024	07/18/00	Hatanaka			
	26	6,289,666	09/18/01	Ginter			
	27	6,293,086	09/25/01	Reynolds			

EXAMINER

*D. B. Les*

DATE CONSIDERED

*4/3/06*

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	28	6,370,862	04/16/02	Cheng	—	—	
	29	6,418,724	07/16/02	Cheng	—	—	
	30	6,564,556	05/20/03	Ginter	—	—	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	31	EP 0444013 A1	08/28/91	Europe	—	—		
	32	EP 0505263 A1	09/23/92	Europe	—	—		
	33	WO 0190548 A1	11/29/01	WO	—	—		
	34	IT 1256878	12/27/95	Italy	—	—		

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
	35	Blanco et al., "Water Recovery Systems for Steam Injected Gas Turbines: An Economic Analysis", Proceedings of ECOS 2002, July 3-5, Berlin, Germany.						
	36	Bathie, W., "Fundamentals of Gas Turbines", 1996, p 139.						
	37	Boyce, M., "Handbook for Cogeneration and Combine Cycle Power Plants", 2002, p 62.						
	38	Granovski et al., "Simulation of Temperature Field Redistribution through multistage cooled turbines", Paper 2001-GT-0576, ASME Turbo Expo. 2001 June 4-7, 2001, New Orleans.						
	39	Lefebvre, A., "Gas Turbine Combustion", 1998, section 5-7-3 (pp.150-151); p337 (on CO vs. NOx).						
	40	Malecki et al., "Application of and Advanced CFD-Based Analysis System to the PW600 Combustor to Optimize Exit Temperature Distribution - Part 1: Description and Validation of the Analysis Tool", 2001.						
	41	Moore et al., "GE Power Systems; Gas Turbine Emissions and Control", 2001, p 18.						
	42	SPE "Mashproekt", "Aquarius Cycle", <a href="http://www.mashproekt.nikolayev.ua/common.htm">http://www.mashproekt.nikolayev.ua/common.htm</a>						
	43	Travers, A., "Thermoeconomic Analysis of STIG, RWO and HAT Cycles with Carbon Dioxide (CO2) Emission Penalty", Masters Thesis of Thermochemical Power Group of the University of Genoa Faculty of Engineering, 2000.						

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EXAMINER	D. Boles	DATE CONSIDERED	4/13/04
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